

EDUCATION

- Sep. 2022 - **HKUST**, Hong Kong
Now PhD, Computer Science and Engineering
- Sep. 2018 - **ShanghaiTech University**, Shanghai, China
Jun. 2022 Bachelor of Engineering, Computer Science and Technology
GPA: 3.85/4.0 (**Major**: 4.0/4.0) **Ranking**: 3/252
Honors: Shanghai Scholar 2021, Shanghai Outstanding Graduate 2022

PUBLICATIONS

- 1 **Xinhang Liu**, Yu-Wing Tai, Chi-Keung Tang. *ChatCam: Empowering Camera Control through Conversational AI*. **NeurIPS 2024**. [\[pdf\]](#) [\[project page\]](#)
- 2 **Xinhang Liu**, Jiaben Chen, Shiu-hong Kao, Yu-Wing Tai, Chi-Keung Tang. *Deceptive-NeRF/3DGS: Diffusion-Generated Pseudo-Observations for High-Quality Sparse-View Reconstruction*. **ECCV 2024**. [\[pdf\]](#) [\[project page\]](#)
- 3 **Xinhang Liu**, Jiaben Chen, Shiu-hong Kao, Yu-Wing Tai, Chi-Keung Tang. *CryoFormer: Continuous Heterogeneous Cryo-EM Reconstruction using Transformer-based Neural Representations*. **ECCV 2024 - NFBCC Workshop**. (Spotlight) [\[pdf\]](#) [\[project page\]](#) [\[video\]](#)
- 4 **Xinhang Liu**, Yu-Wing Tai, Chi-Keung Tang, Pedro Miraldo, Suhas Lohit and Moitrey Chatterjee. *Gear-NeRF: Free-Viewpoint Rendering and Tracking with Motion-aware Spatio-Temporal Sampling*. **CVPR 2024**. (**Highlight, 2.8% of 11532**) [\[pdf\]](#) [\[project page\]](#) [\[video\]](#) [\[code\]](#)
- 5 **Xinhang Liu**, Jiaben Chen, Huai Yu, Yu-Wing Tai and Chi-Keung Tang. *Unsupervised Multi-view Image Segmentation using Radiance Field Propagation*. **NeurIPS 2022**. [\[pdf\]](#) [\[project page\]](#) [\[code\]](#) [\[data\]](#)
- 6 Liao Wang, Jiakai Zhang, **Xinhang Liu**, Fuqiang Zhao, Yanshun Zhang, Yingliang Zhang, Minye Wu, Lan Xu and Jingyi Yu. *Fourier PlenOctree for Dynamic Radiance Field Rendering in Real-time*. **CVPR 2022**. [\[pdf\]](#) [\[project page\]](#) [\[video\]](#)
- 7 Jiakai Zhang, **Xinhang Liu**, Xinyi Ye, Fuqiang Zhao, Yanshun Zhang, Minye Wu, Yingliang Zhang, Lan Xu, Jingyi Yu. *Editable Free-viewpoint Video Using a Layered Neural Representation*. **SIGGRAPH 2021**. [\[pdf\]](#) [\[project page\]](#) [\[code\]](#) [\[video\]](#)

EXPERIENCES

- Jun. 2023 - **Research Intern**, Mitsubishi Electric Research Laboratories, with [Moitrey Chatterjee](#), [Pedro Miraldo](#) and [Suhas Lohit](#)
- Mar. 2021 - **Robotics Institute Summer Scholar (Virtual)**, Carnegie Mellon University, with [Prof. Sebastian Scherer](#) and [Prof. Huai Yu](#)

TEACHING & SERVICE

- Conference Reviewer of CVPR, ICCV, ECCV, NeurIPS, ICLR and ICML.
- Fall, 2024 COMP4411 - Computer Graphics: Teaching assistant.
- Spring, 2024 COMP2611 - Computer Organization: Teaching assistant.
- Spring, 2023 COMP5421 - Computer Vision: Teaching assistant.
- Fall, 2021 CS276 - Computational Photography: Guest lecture in "NeRF".
- Fall, 2021 CS182 - Introduction to Machine Learning: Teaching assistant.

TECHNICAL SKILLS

Programming C, C++, Python (PyTorch), MATLAB, Linux, \LaTeX

Languages Mandarin Chinese (Native), English (Fluent)

TOEFL: 107 (R:29, L:27, S:23, W:28) GRE: 325 (V: 156, Q: 169, AW: 4.0)